

### **IN THE SPECIFICATION**

Please amend the specification as follows.

On page 5, line 21 of the originally filed specification, please delete, without prejudice or disclaimer, the heading "Brief Description of the Drawings."

On page 5, lines 23-26 of the originally filed specification, please delete, without prejudice or disclaimer, the entire paragraph starting with "Figure 1A" and ending with "the beads."

On page 5, lines 28-31 of the originally filed specification, please delete, without prejudice or disclaimer, the entire paragraph starting with the word "Figure 1B" and ending with "the bead."

On page 6, lines 1-4 of the originally filed specification, please delete, without prejudice or disclaimer, the entire paragraph starting with the word "Figure 2A" and ending with "the bead."

On page 6, lines 6-9 of the originally filed specification, please delete, without prejudice or disclaimer, the entire paragraph starting with the word "Figure 2B" and ending with "the bead."

Please amend the paragraph starting on page 36, line 27 and ending on page 37, line 7 of the originally filed specification as follows:

~~With reference to Figure 1, the~~ The Salmonella beads (~~red spheres~~) effectively captured the ~~green~~ stained *S. choleraesuis* cells (~~Figure 1A~~) and did not bind to the ~~green~~ stained *L. monocytogenes* cells (~~Figure 1B~~). By microscopic examination, it appears that approximately 25% of the beads were bound to *S. choleraesuis* cells, compared to < 1% of beads bound to *L. monocytogenes*. ~~With reference to Figure 2, while~~ While the Listeria beads (~~red spheres~~) did capture the ~~green~~ stained *L. monocytogenes* cells (~~Figure 2A~~), the

*S. choleraesuis* cells are also captured by the *Listeria* specific beads (Figure 2B). It is possible that the non-specific binding seen with the *Listeria* beads occurs because the capture conditions were not optimized. Alternatively, the lack of specificity with the *Listeria* beads could be due a lack of specificity of the antibody used to coat the beads. This result therefore reinforces why selectivity at multiple levels of molecular discrimination is a preferred means of analysis. ~~Future experimentation is planned to determine why the selected specificity was not achieved with the *Listeria* beads.~~